



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Pat McCrory
Governor

Dexter R. Matthews
Director

John Skvalar, III
Secretary

July 8, 2014

Mr. Chan Bryant
Withers & Ravenel
111 MacKenan Drive
Cary, North Carolina 27511

Re: RFP for Work Plan and Cost Proposal for Task Order 198DP-4
--- Above-Ground Vapor Survey and SW/SD Sampling/Analysis
ID#: NONCD0000198
Otway Community Refuse Dump
Town of Otway, Carteret County

Dear Mr. Bryant:

Please submit a work plan, cost proposal, and schedule to perform work and reporting activities at Otway Community Refuse Dump Landfill in Otway, Carteret County, NC. These activities are to be conducted in accordance with the State Contract.

Investigation Goals: The investigation is designed to conduct above-ground landfill gas survey, and sample and analyze surface water and sediments around the waste disposal site.

Subtask 198DP-4A: Provide a work plan that includes the activities discussed in the following:

- a. Provide a work plan that consists of a media contamination investigation. Prepare the work plan in accordance with the NC Superfund Section Quality Assurance Program Plan and Quality Assurance Standard Operating Procedures (QASOP).
- b. Certify that all employees, including subcontractor personnel, engaged in intrusive field activities at the site comply with OSHA – required health and safety training for hazardous waste sites.
- c. Develop a CAD-drawn site map that shows the locations of sampling points.
- d. Provide an activity work schedule that includes general daily activities for field work. This will include field prep, mobilization and demobilization.
- e. Collect GPS coordinates in decimal degrees to the seventh order using the North American Datum of 1983 (NAD 83) format.
- f. Reference the most recent *Guidelines for Addressing Pre-Regulatory Landfills and Dumps* for details regarding procedures.
- g. Submit samples to a North Carolina certified laboratory and analyze for the following parameters by the most current U.S. EPA Contract Laboratory Program Target Compound List: VOCs by 8260, 1,4 Dioxane by 8260SIM, SVOCs by 8270, 14 metals by 6020; mercury by 7471, ammonia by SM 4500, nitrate and sulfate by EPA 300. Please note that any alternate method should be by the U.S. EPA Method having the lowest detection limit and that at least achieves the detections equivalent to the 15A NCAC 2L standards or where these are not available, then federal maximum contaminant limits (MCLs).

Subtask 198DP-4B: Above-Ground Landfill Gas Survey:

- Conduct above-ground landfill gas survey within the boundary of the waste disposal area delineated in 198DP-3 Report (see **Appendix 1**).

Subtask 198DP-4C: Sampling and Analysis of Surface Water and Sediments

- Collect two (2) sets of surface-water/sediment samples from the approximate locations shown on attached **Appendix 1**.

Please Note:

- All sampling activities are in accordance with the approved *Standard Operating Procedures and Quality Assurance Manual*.
- Perform a completeness check of the laboratory data upon receipt and state if the data is usable. Forward the data sheets and completeness letter to me as soon as the check is complete and any laboratory issue has been resolved.

Task Order 198DP-4 Report: Assemble a report in the completed as part of Task 198DP-4, and name the report: “*Remedial Investigation Report: Above-Ground Vapor Survey, Sampling and Analysis of Surface Water and Sediments.*”

Please note that the report should contain the following items:

- a). A section concerning any variations from the work plan or your SOPs.
- b). Sample analytical results tables indicating BDL or ND for non-detects. Present results to match the lab report.

Provide work plan, cost estimate, and proposed schedule within 7 days of receipt of this request. Upon review and approval of the cost proposal, a task authorization to proceed will be issued. If you have any questions, please email me at zi-qiang.chen@ncdenr.gov or call me at (919) 707-8347.

Sincerely,



Zi-Qiang Chen, PhD, Environmental Engineer
Pre-Regulatory Landfill Unit
Inactive Hazardous Sites Branch
Superfund Section

Appendix 1: Otway Community Refuse Dump 198DP-4 Task Order SW/SD Sampling Location Map

